

**AMENDMENTS TO THE SPECIFICATION**

*Please replace the paragraph on page 11, lines 8-22 with the following paragraph:*

[[FIG. 4]] FIG. 5 is a schematic flow diagram according to another variant of the present invention. In step 401 the animal to be milked is identified according to known techniques as discussed above. In step 402 milking criteria parameters for each udder quarter are read and in step 403 the vacuum difference for each udder quarter is determined. The vacuum difference for each udder quarter is determined so that the milking will finish substantially at the same time for each udder quarter. Thereby, no udder quarter will be over milked. The vacuum difference is determined so that the vacuum difference is set to a higher level for udder quarters expected to take a longer time to finish milking, to thereby shorten their time to finish milking, and to a lower level for udder quarters expected to take a shorter time to finish milking, to thereby prolong their milking time.

*Please replace the paragraph on page 11, line 23 - -page 12, line 4 with the following paragraph:*

[[FIG. 5]] FIG. 4 is a schematic flow diagram of a further improvement of a variant according to the present invention. The improvement according to the method in [[FIG. 5]] FIG. 4 is intended to be performed during milking. In step 501 an animal related milking parameter is read during milking. This parameter could for instance be the momentary milk flow, current milk yield or a calculated parameter such as expected time

to finish milking based on the current milk yield or currently drawn milk amount. In step 502 the vacuum level in the teat cup liner space is adjusted to take into consideration the animal related milking parameter. If for example the milk flow is lower than expected at a particular time during the milking the vacuum in the space may be adjusted. Thus, a quick and efficient milking is achieved. This method is particular beneficial for quarter milking.